

**FIG. 1 B**

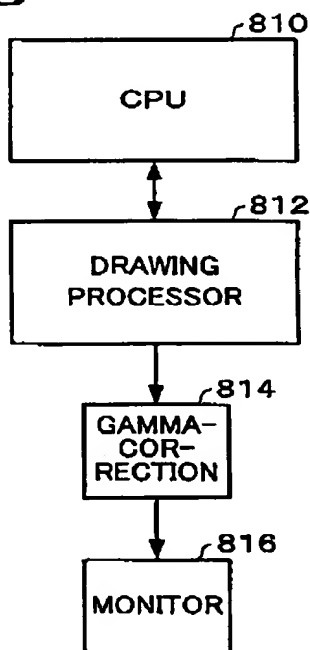


FIG. 2

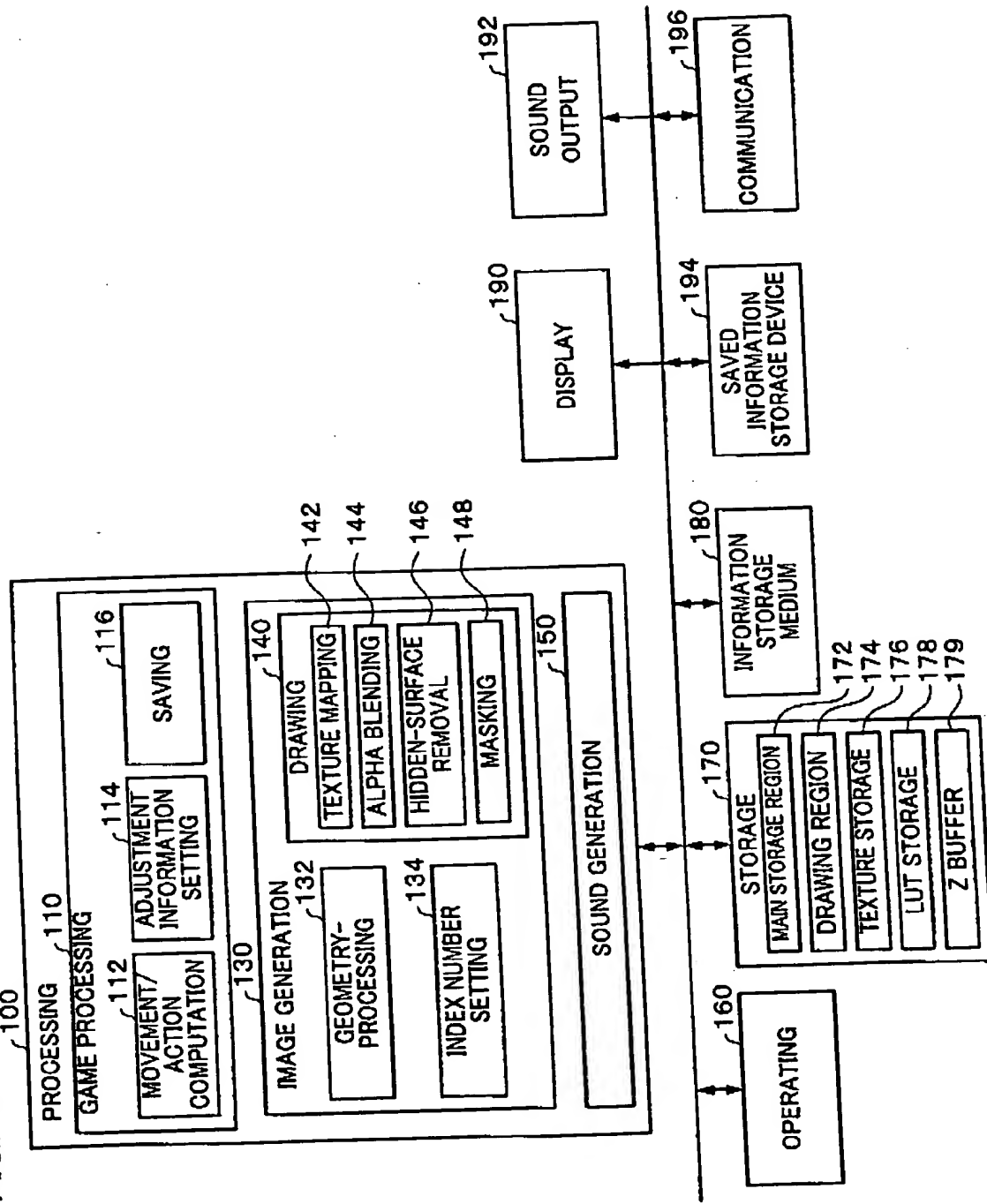


FIG. 3

INDEX COLOR TEXTURE-MAPPING

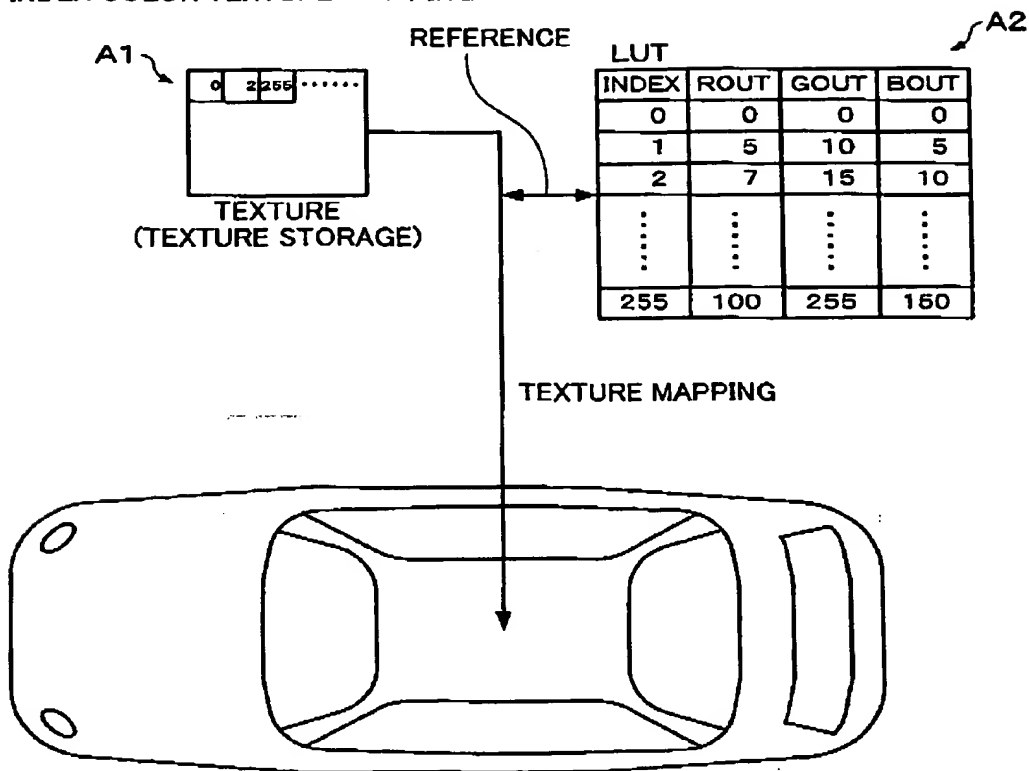


FIG. 3

FIG. 4

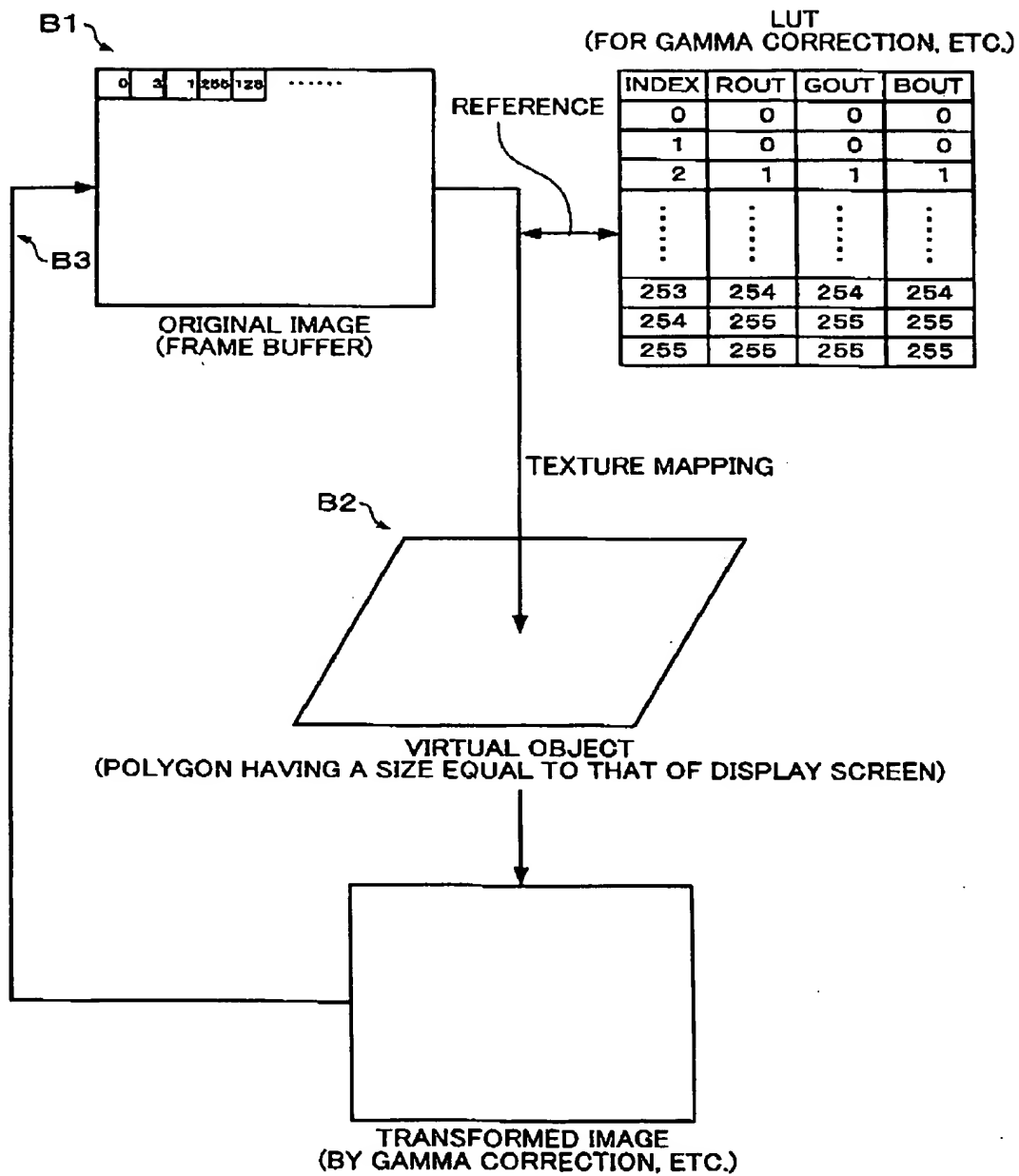


FIG. 5A

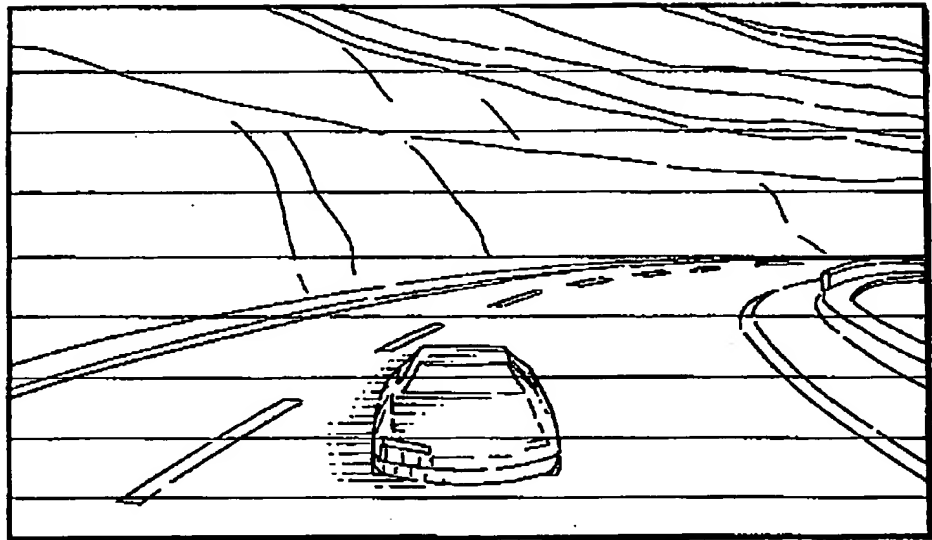


FIG. 5B

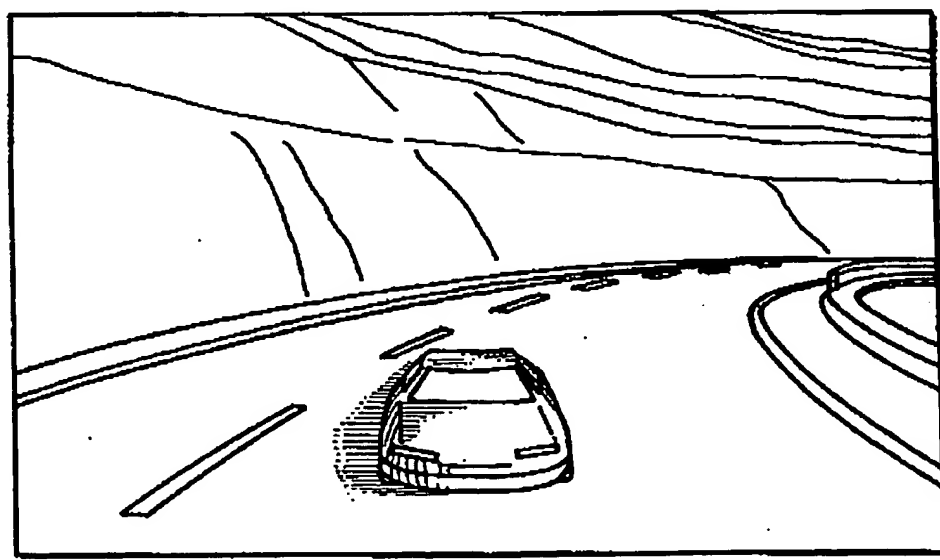
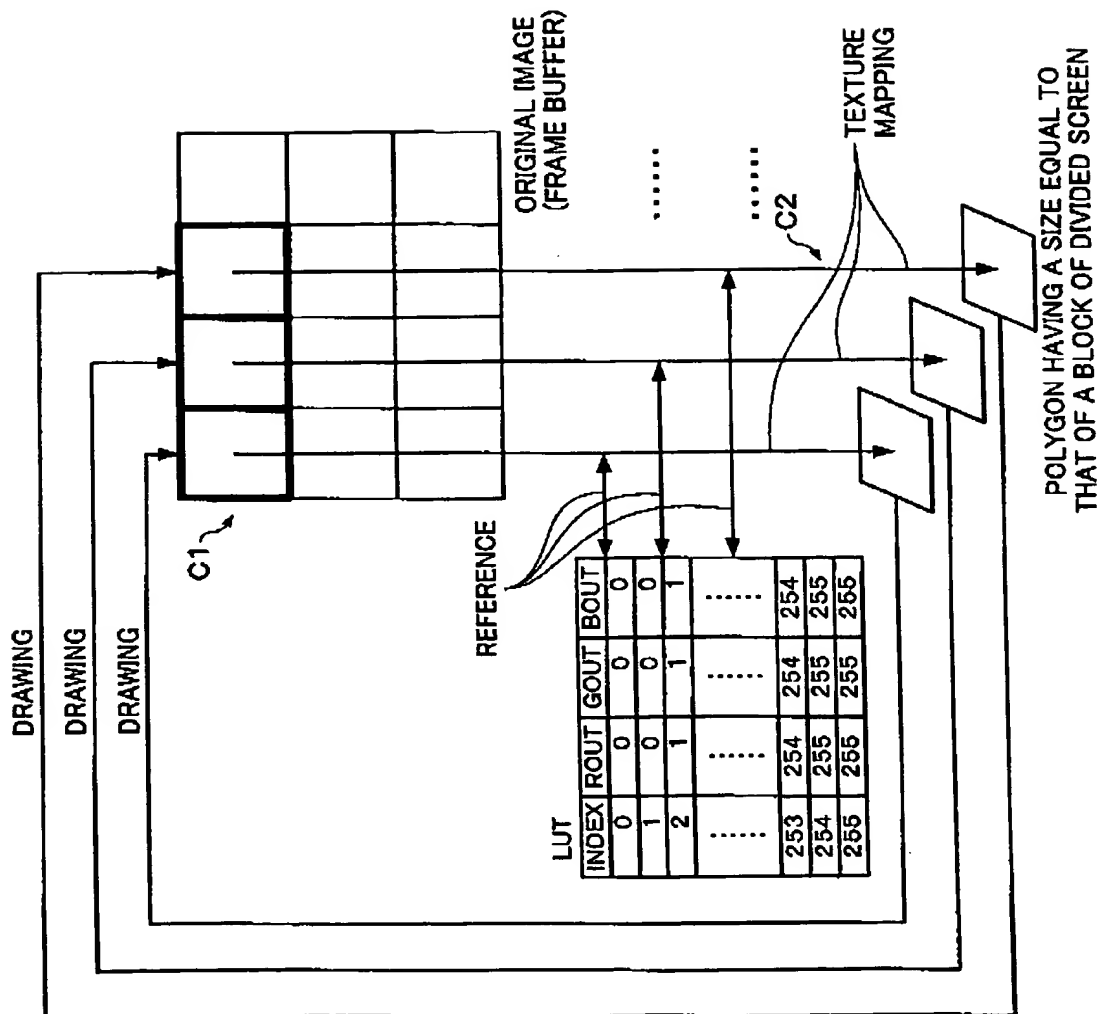


FIG. 5A

FIG. 6



7/41

FIG. 7A

GAMMA CORRECTION

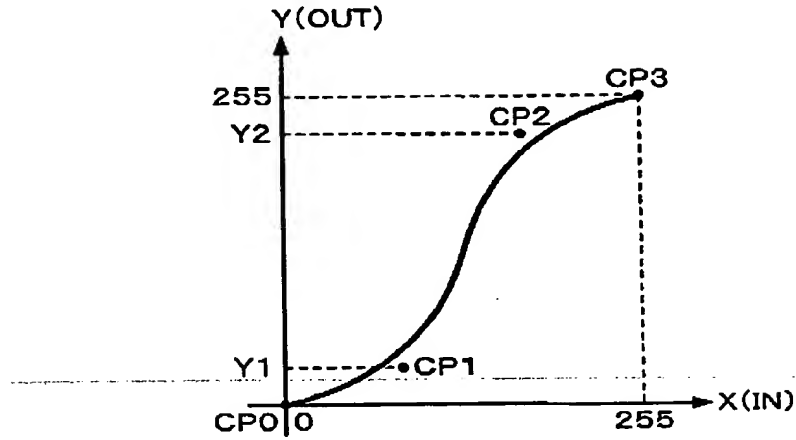


FIG. 7B

LUT FOR GAMMA CORRECTION

INDEX	ROUT	GOUT	BOUT
0	0	0	0
1	0	0	0
2	1	1	1
3	1	1	1
4	2	2	2
5	3	3	3
⋮	⋮	⋮	⋮
250	252	252	252
251	253	253	253
252	254	254	254
253	254	254	254
254	255	255	255
255	255	255	255

FIG. 8A

NEGATIVE/POSITIVE INVERSION

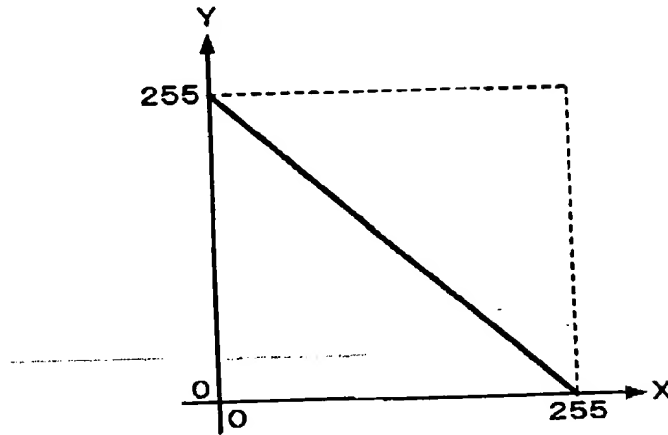


FIG. 8B

LUT FOR NEGATIVE/POSITIVE INVERSION

INDEX	ROUT	GOUT	BOUT
0	255	255	255
1	254	254	254
2	253	253	253
3	252	252	252
⋮	⋮	⋮	⋮
253	2	2	2
254	1	1	1
255	0	0	0

FIG. 8A



9/41

FIG. 9A

POSTERIZATION

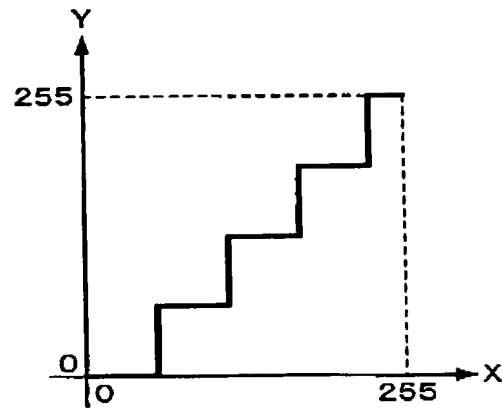


FIG. 9B

SOLARIZATION

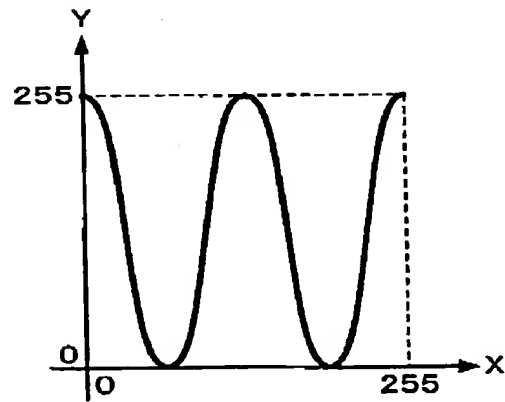
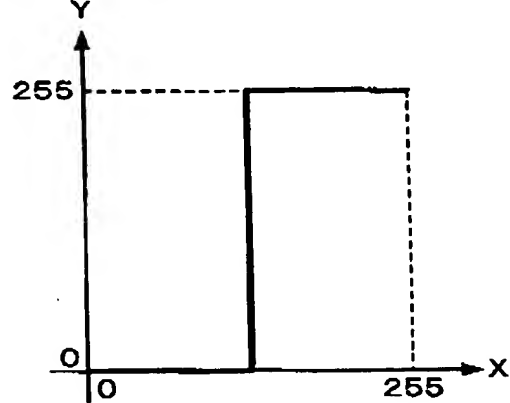


FIG. 9C

BINARIZATION



## LUTR FOR MONOTONE FILTERING

INDEX	ROUTR	GOUTR	BOUTR
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	1	1	1
5	1	1	1
⋮	⋮	⋮	⋮
250	74	74	74
251	75	75	75
252	75	75	75
253	75	75	75
254	75	75	75
255	76	76	76

## LUTG FOR MONOTONE FILTERING

INDEX	ROUTG	GOUTG	BOUTG
0	0	0	0
1	0	0	0
2	1	1	1
3	1	1	1
4	2	2	2
5	2	2	2
:	:	:	:
250	146	146	146
251	147	147	147
252	147	147	147
253	148	148	148
254	148	148	148
255	149	149	149

[illegible]

FIG. 12

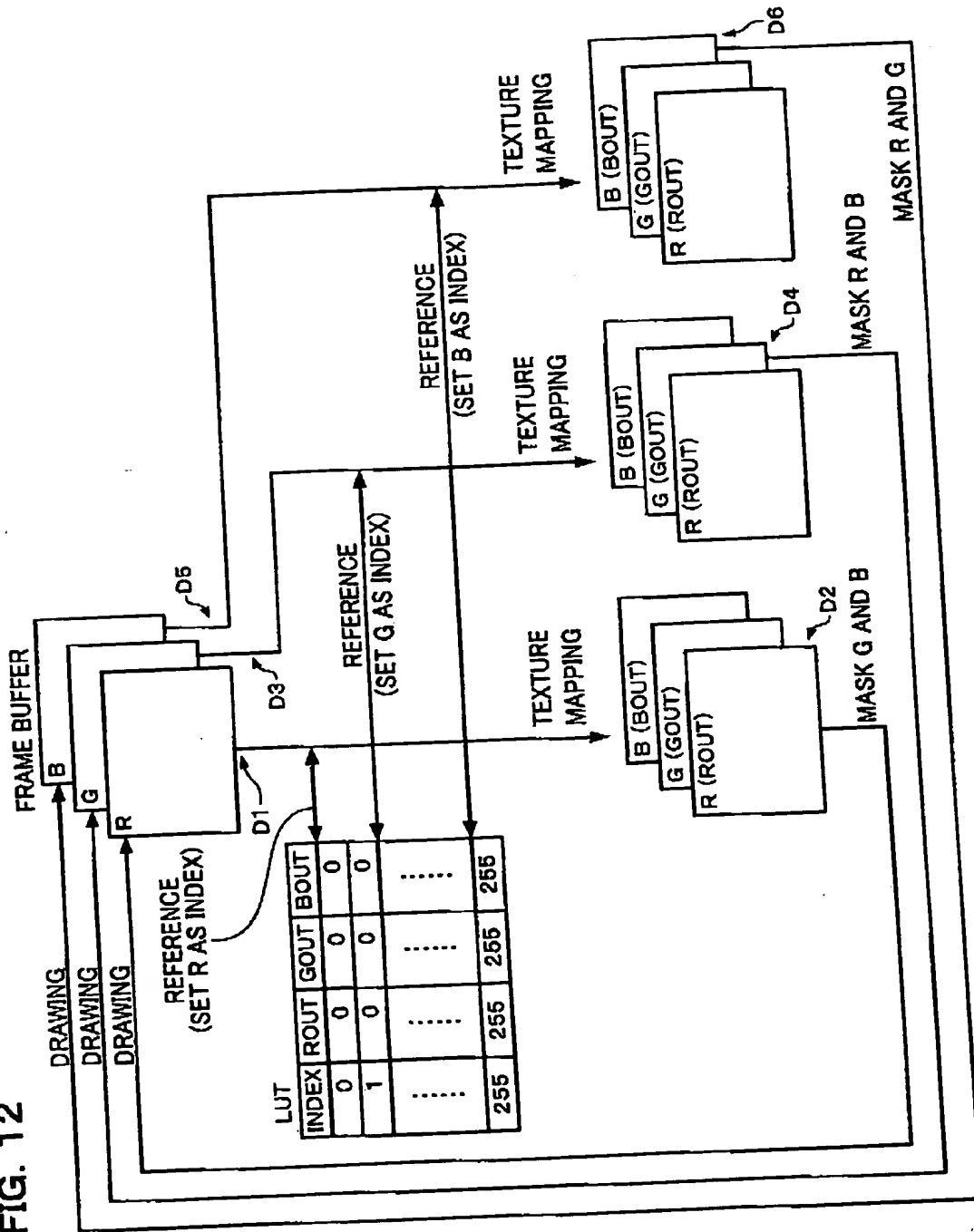


FIG. 13

FIG. 13

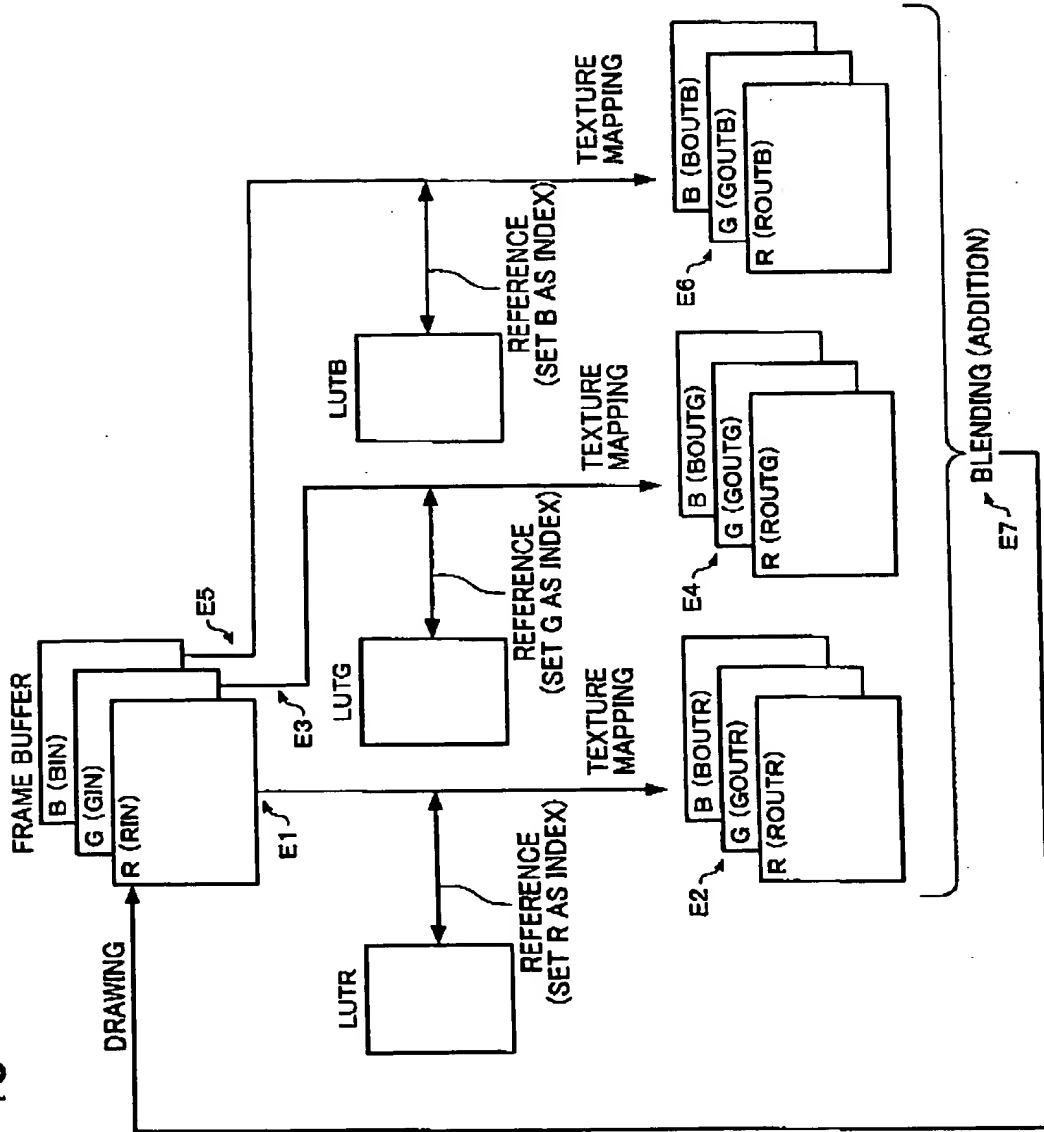


FIG. 14

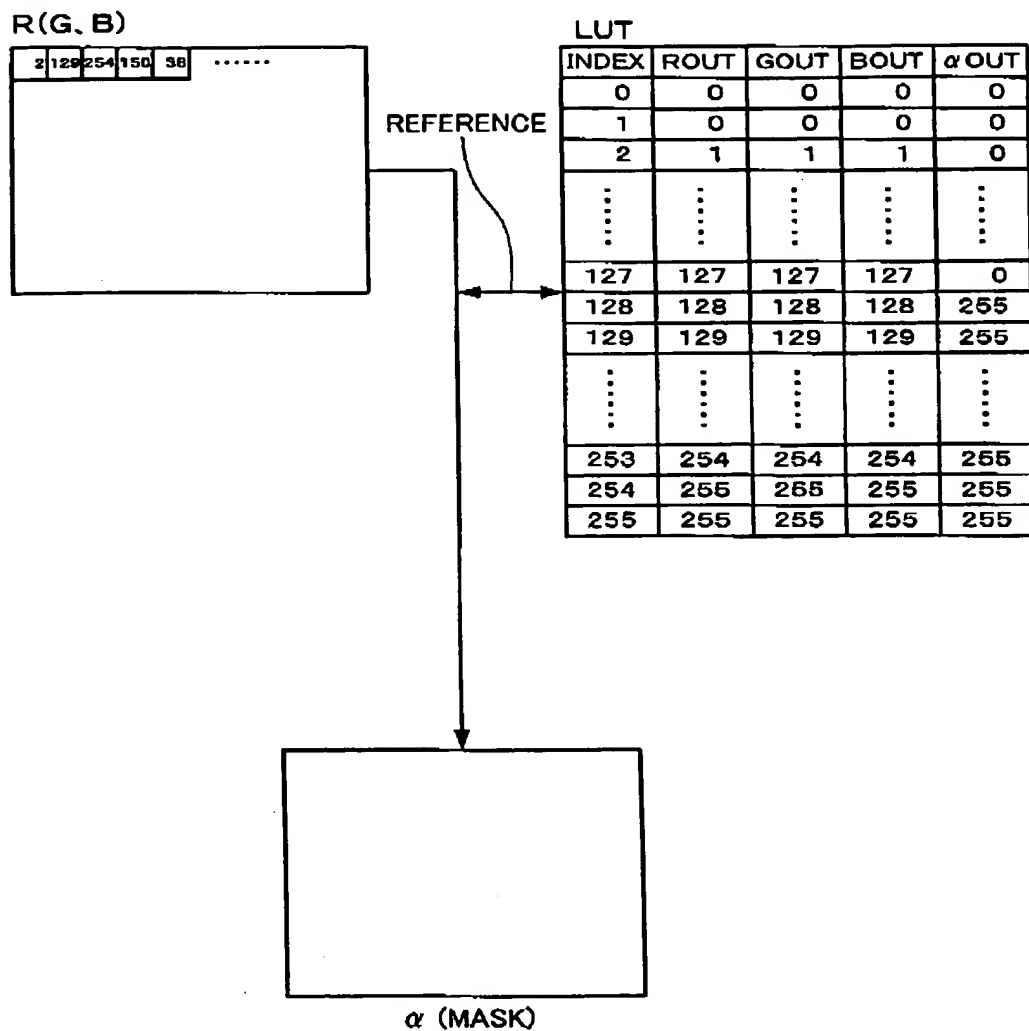


FIG. 15

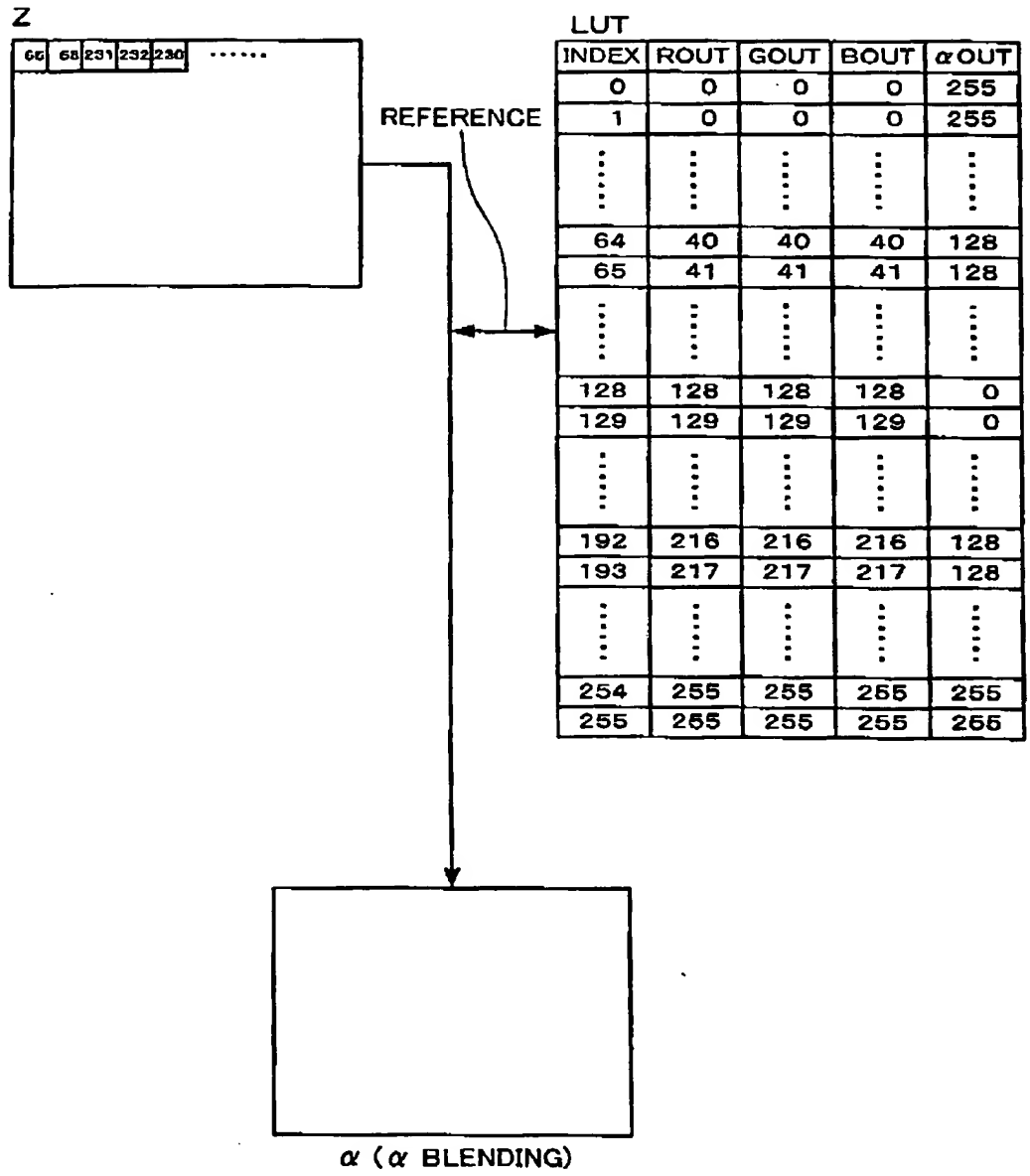
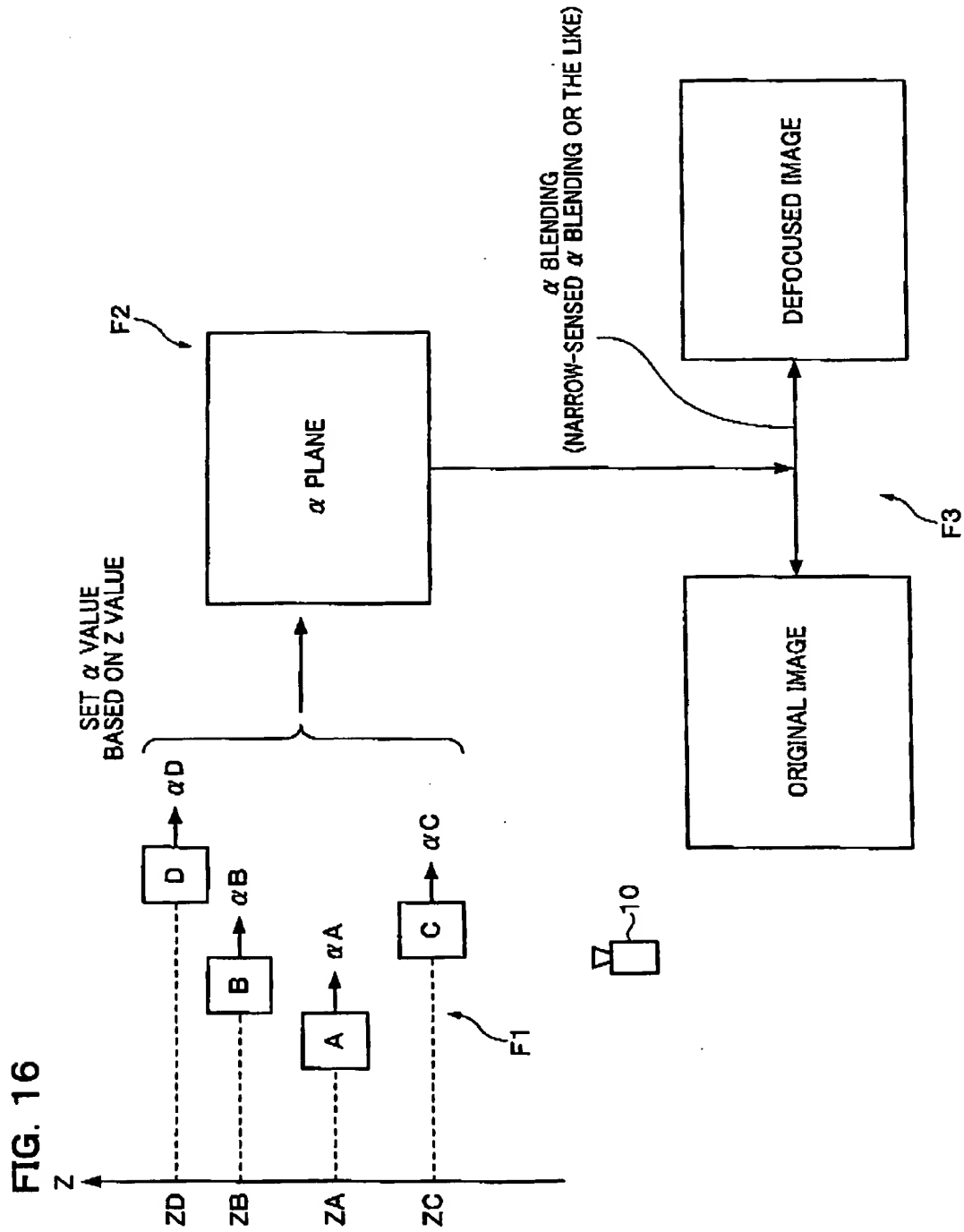


FIG. 15

16/41

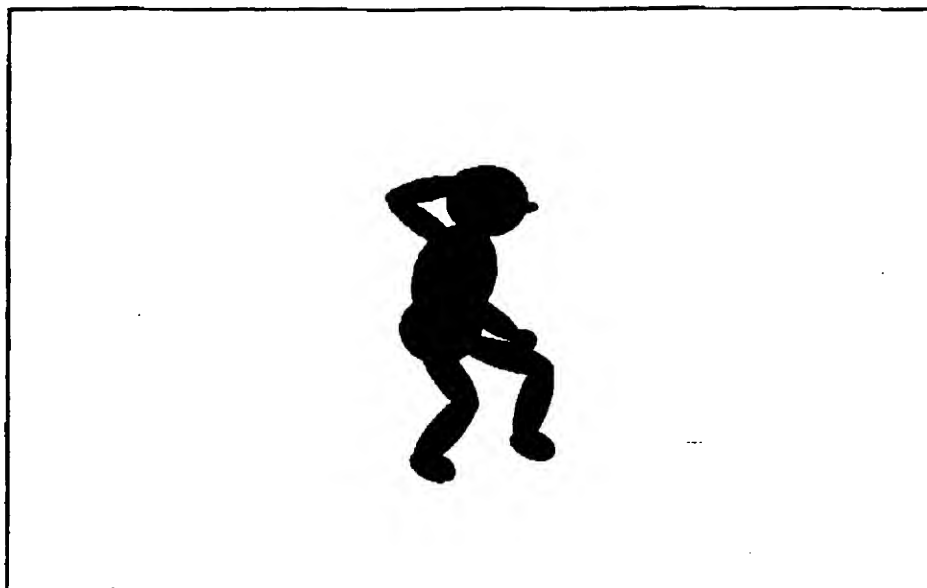


FOOTNOTES

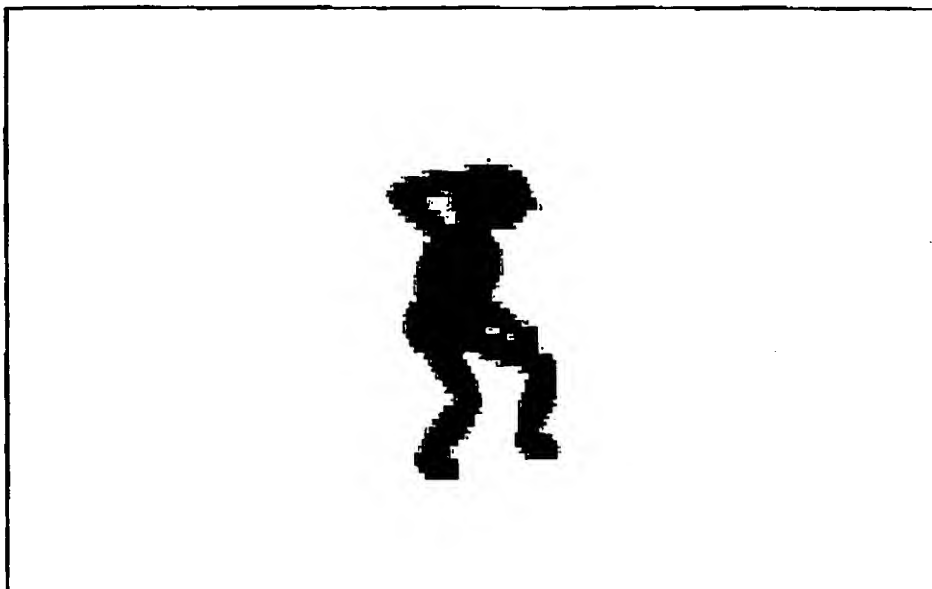


17/41

**FIG. 17A** ORIGINAL IMAGE



**FIG. 17B** DEFOCUSSED IMAGE



1.031.01. 293.660

FIG. 18

FIG. 18

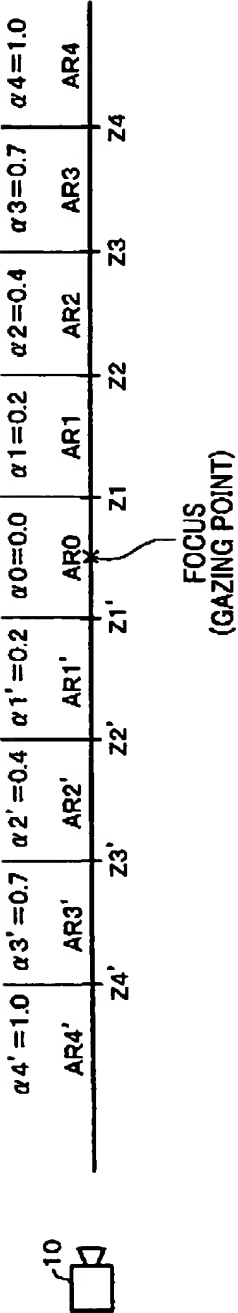
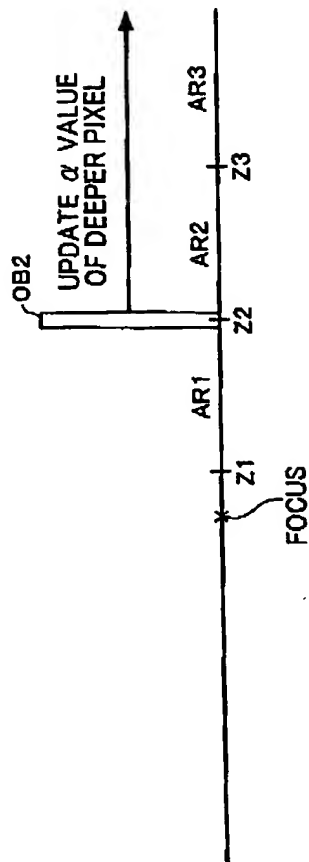
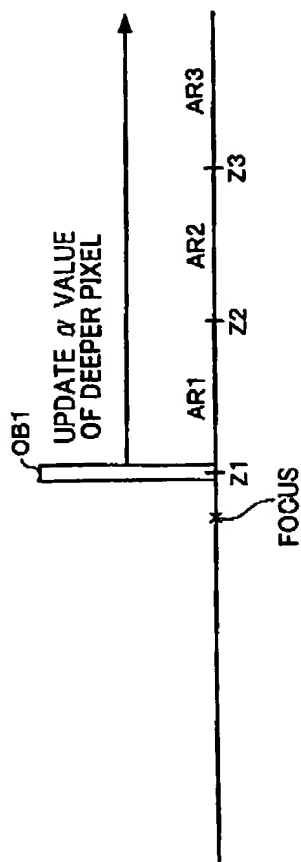


Diagram of a rectangular block with a trapezoidal top and a label "10" pointing to its left side.



A diagram showing a square with a triangle on top. A bracket to the left of the square is labeled with the number 10.

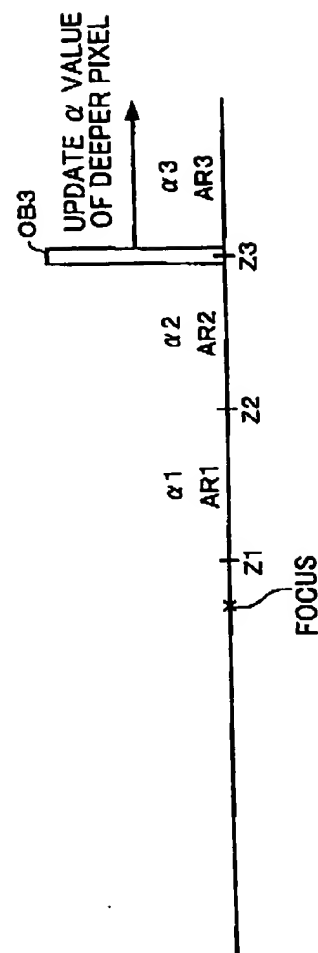


FIG. 20

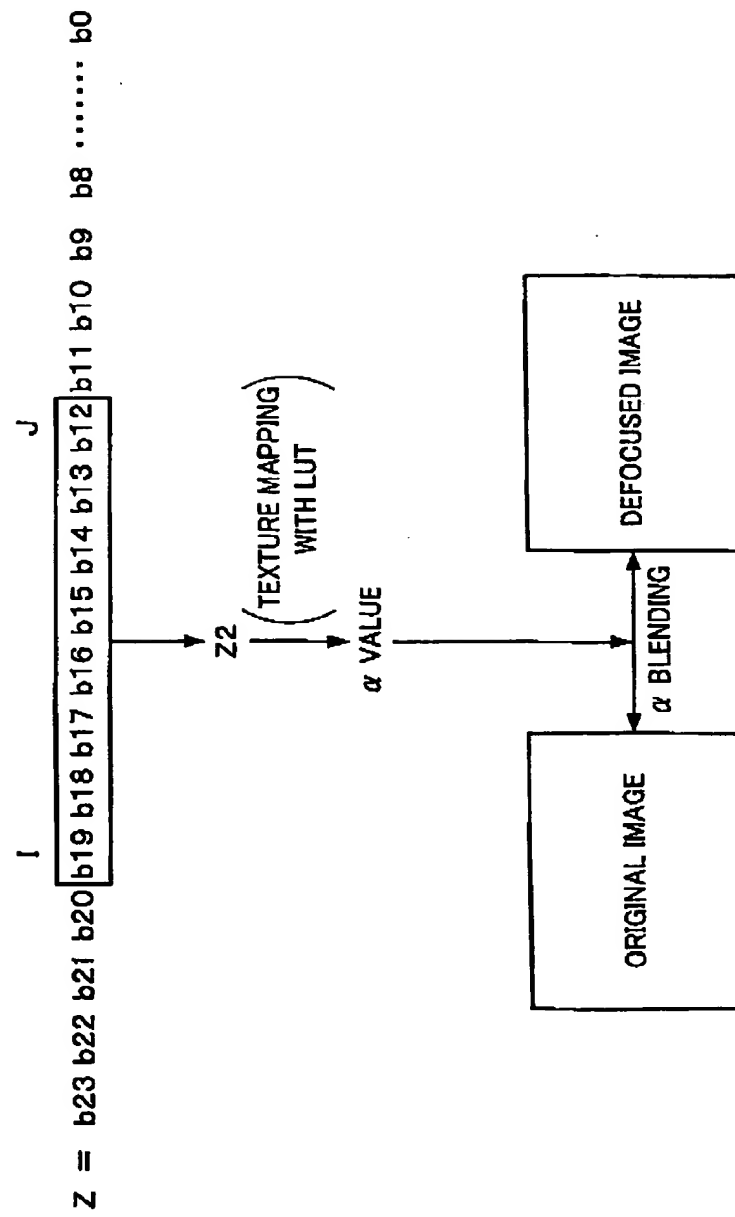
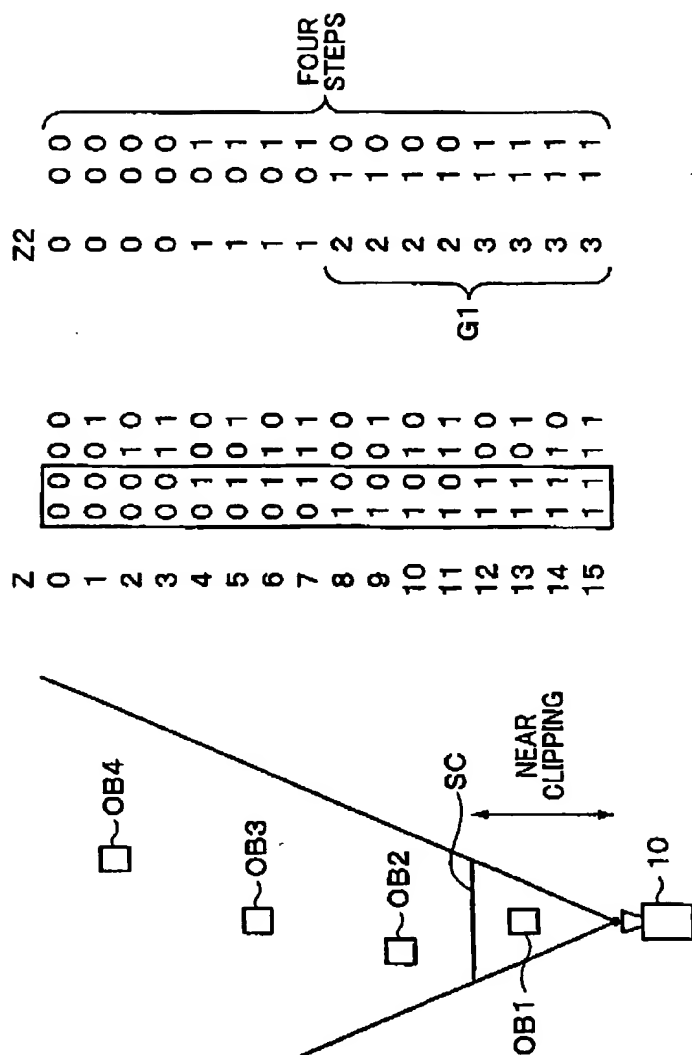


FIG. 21

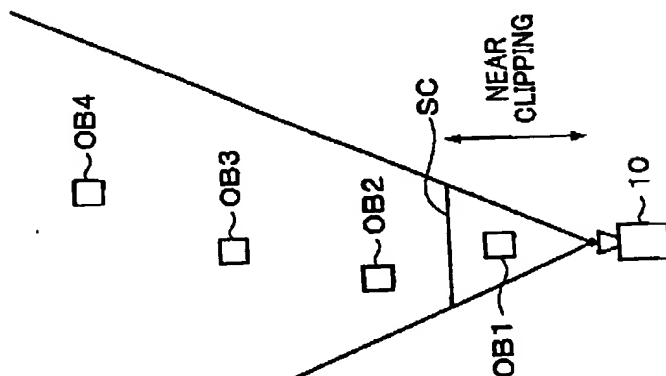


22/41

Z2	FOUR STEPS								CLAMPING							
	0	0	1	1	2	2	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	1	0	1	1	0	1	1	1	1	1	1	1

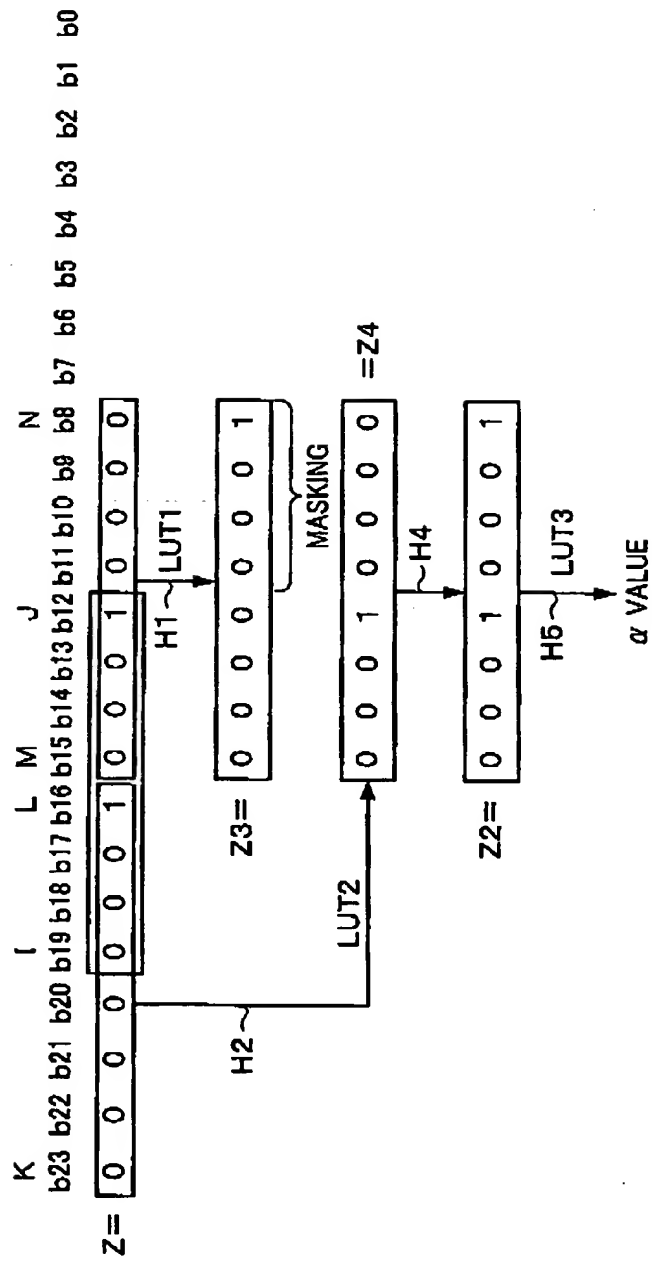
Z	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1

FIG. 22



23/41

FIG. 23



24/41

FIG. 24

LUT1 (BITS 15 TO 8)

INDEX	OUT (ANY ONE OF R, G, B) AND $\alpha$
0x00 (00000000)	0x00 (00000000)
...	...
0x0F (00001111)	0x00 (00000000)
0x10 (00010000)	0x01 (00000001)
...	...
0x1F (00011111)	0x01 (00000001)
0x20 (00100000)	0x02 (00000010)
...	...
0x2F (00101111)	0x02 (00000010)
0x30 (00110000)	0x03 (00000011)
...	...
0xE0 (11100000)	0x0E (00001110)
...	...
0xEF (11101111)	0x0E (00001110)
0xF0 (11110000)	0x0F (00001111)
0xF1 (11110001)	0x0F (00001111)
0xF2 (11110010)	0x0F (00001111)
...	...
0xFF (11111111)	0x0F (00001111)

T-031-01-2922660



FIG. 25

LUT2 (BITS 23 TO 16)

INDEX	OUT (ANY ONE OF R, G, B AND $\alpha$ )
0x00 (00000000)	0x00 (00000000)
0x01 (00000001)	0x10 (00010000)
0x02 (00000010)	0x20 (00100000)
0x03 (00000011)	0x30 (00110000)
0x04 (00000100)	0x40 (01000000)
...	...
0x0E (00001110)	0xE0 (11100000)
0x0F (00001111)	0xF0 (11110000)
0x10 (00010000)	0xF0 (11110000)
0x11 (00010001)	0xF0 (11110000)
...	...
0xFF (11111111)	0xF0 (11110000)

CLAMPING

Q1

26/41

FIG. 26A

LUT3

INDEX	OUT( $\alpha$ )
0x00 (00000000)	0xFF (11111111)
0x01 (00000001)	0xFE (11111110)
0x02 (00000010)	0xFB (11111011)
...	...
0x7F (01111111)	0x00 (00000000)
0x80 (10000000)	0x00 (00000000)
0x81 (10000001)	0x00 (00000000)
...	...
0xFE (11111110)	0xFE (11111110)
0xFF (11111111)	0xFF (11111111)

FIG. 26B

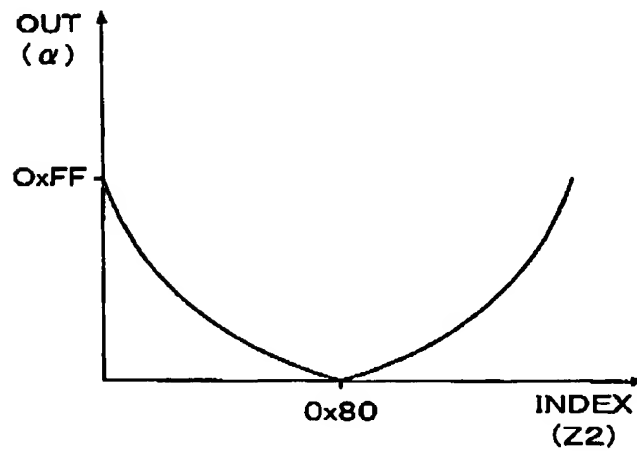


FIG. 27

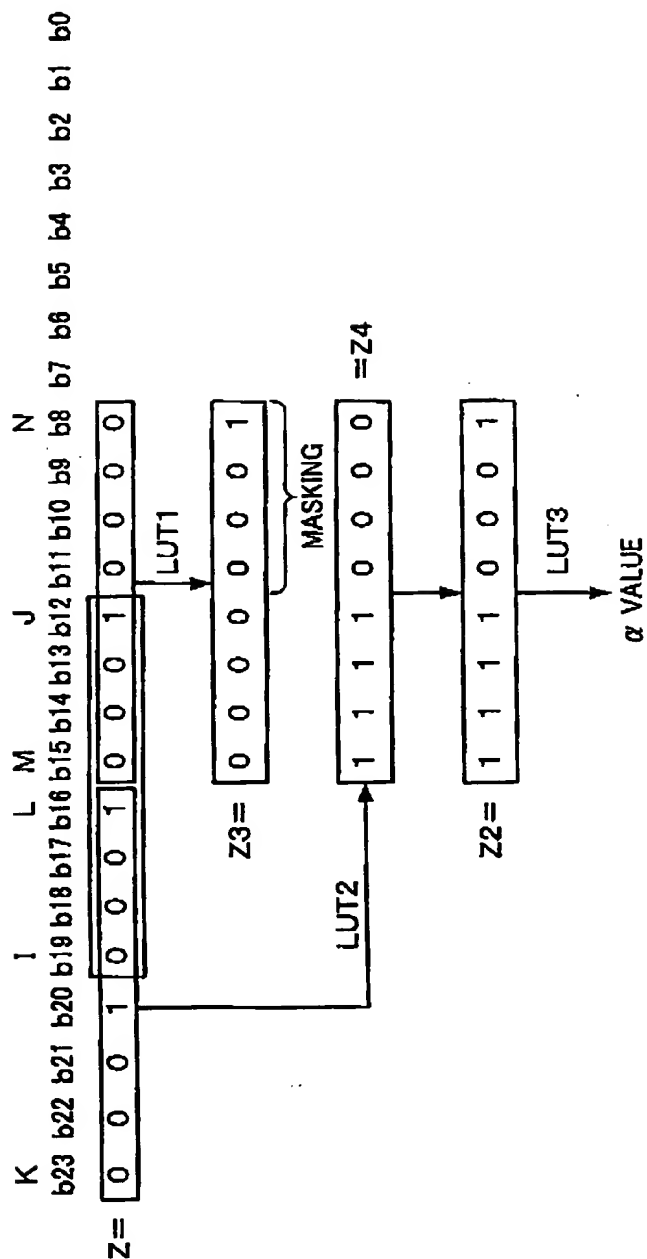


FIG. 28

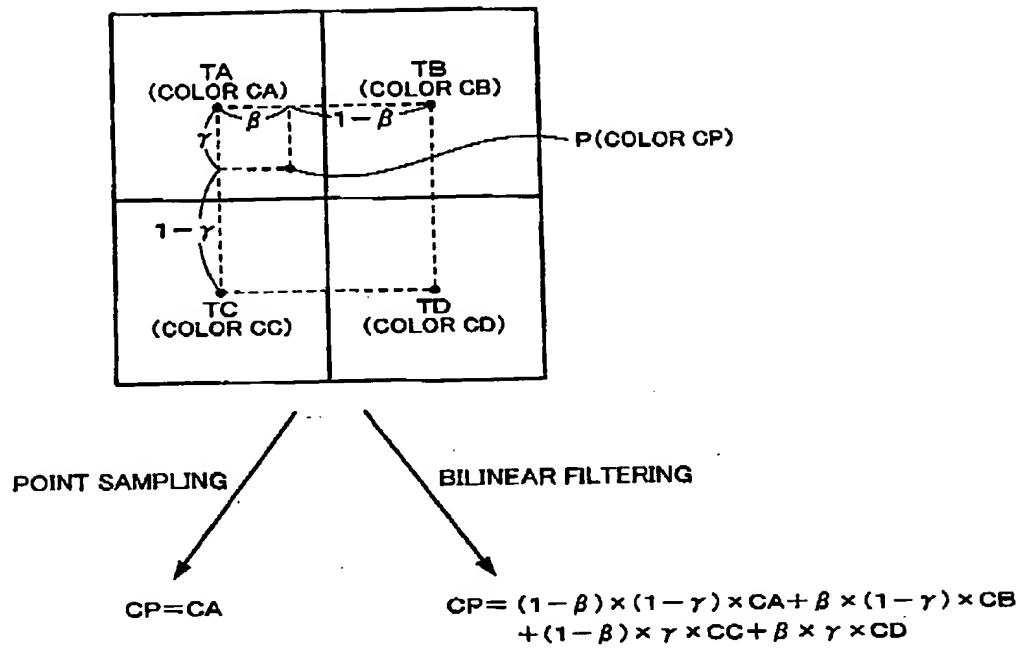


FIG. 29

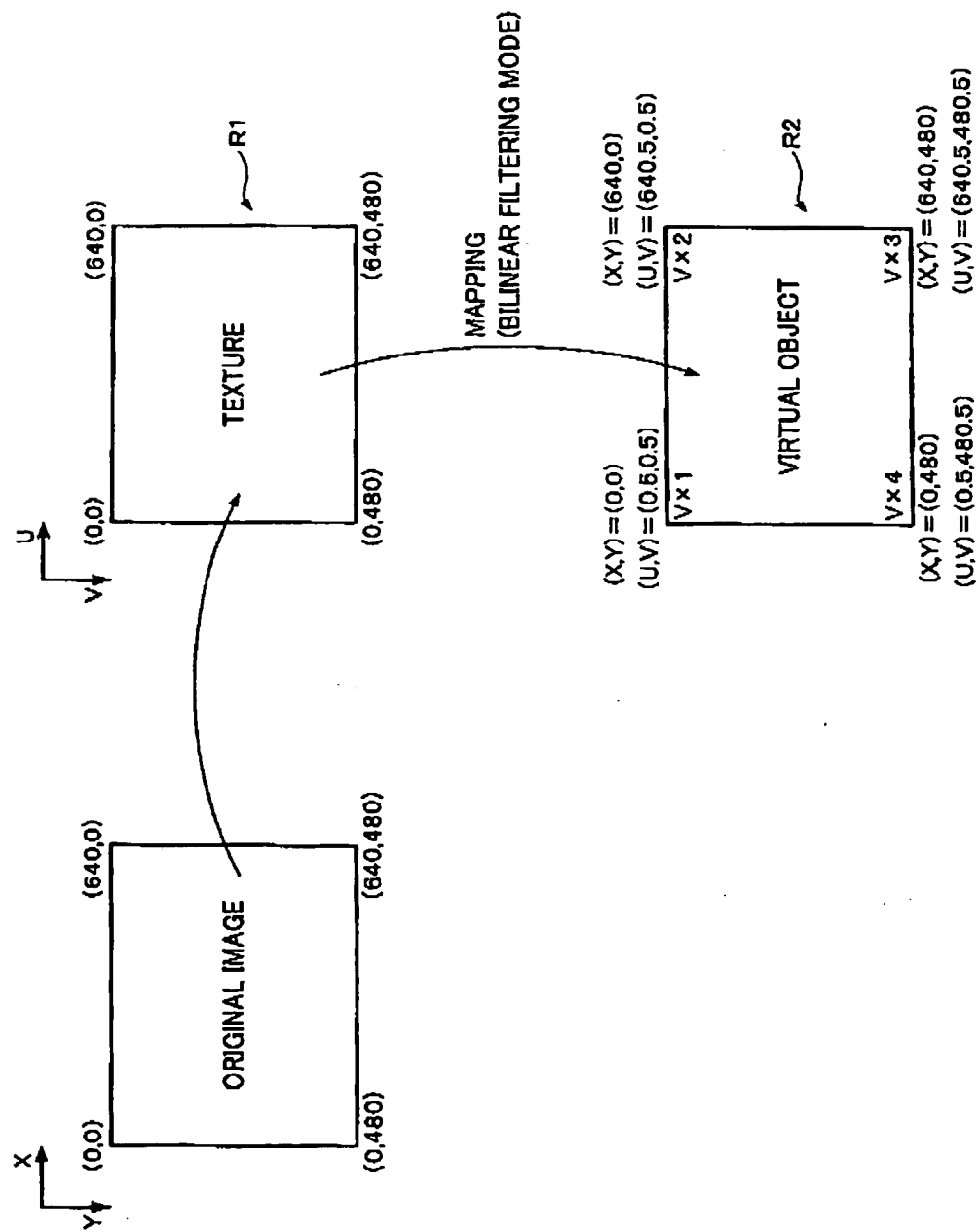
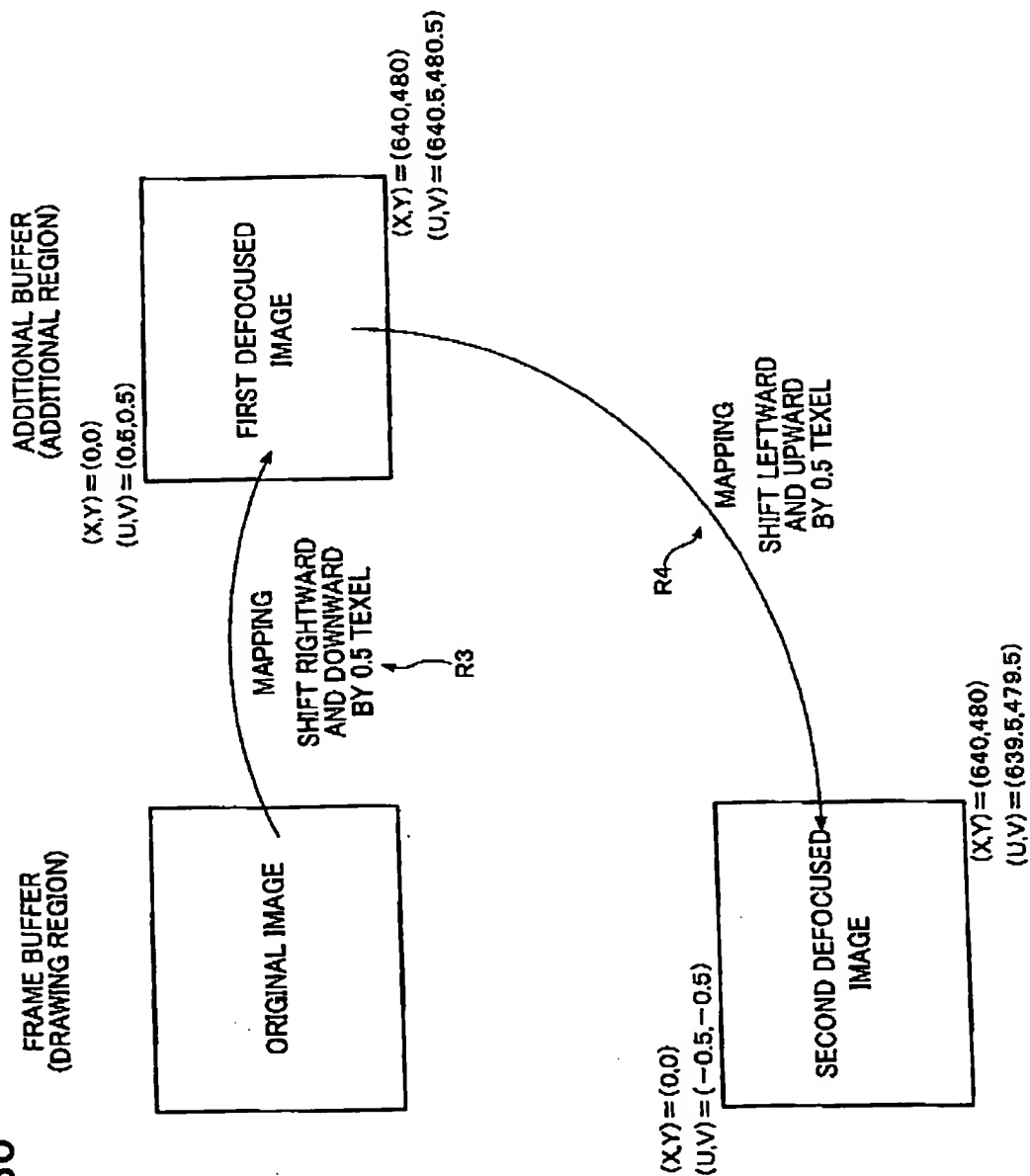
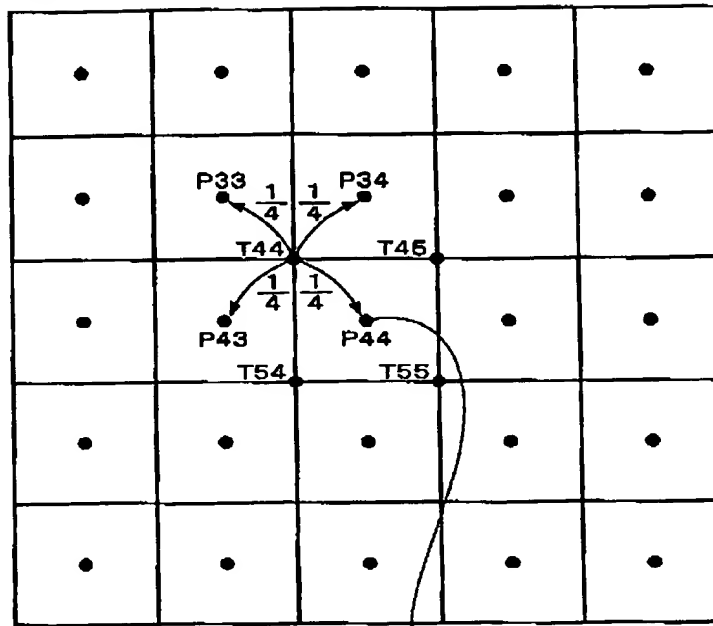


FIG. 30



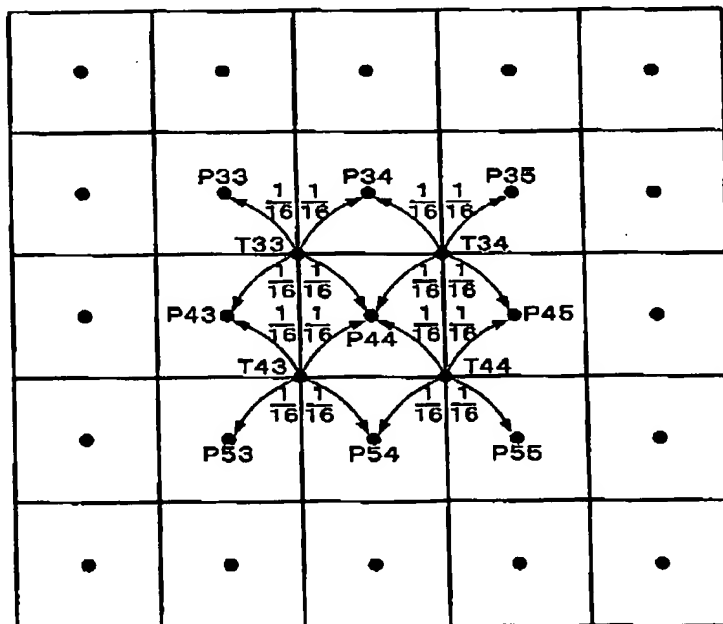
31/41

FIG. 31A



$$CP44 = (C44 + C45 + C54 + C55) / 4$$

FIG. 31B



32/41

FIG. 32A

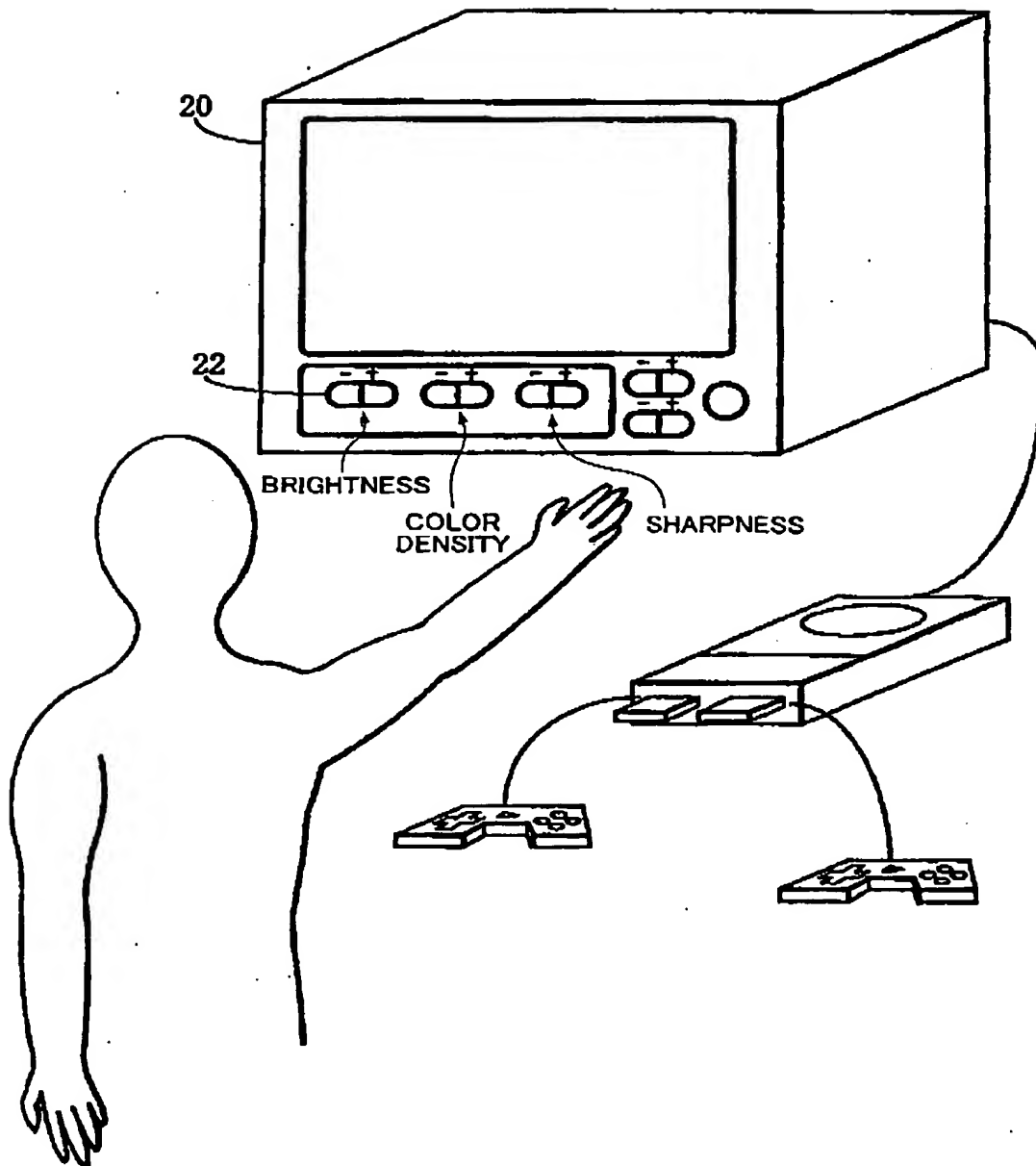
	$\frac{1}{16}$	$\frac{2}{16}$	$\frac{1}{16}$	
	$\frac{2}{16}$	$\frac{4}{16}$	$\frac{2}{16}$	
	$\frac{1}{16}$	$\frac{2}{16}$	$\frac{1}{16}$	

FIG. 32B

$\frac{1}{256}$	$\frac{4}{256}$	$\frac{6}{256}$	$\frac{4}{256}$	$\frac{1}{256}$
$\frac{4}{256}$	$\frac{16}{256}$	$\frac{24}{256}$	$\frac{16}{256}$	$\frac{4}{256}$
$\frac{6}{256}$	$\frac{24}{256}$	$\frac{36}{256}$	$\frac{24}{256}$	$\frac{6}{256}$
$\frac{4}{256}$	$\frac{16}{256}$	$\frac{24}{256}$	$\frac{16}{256}$	$\frac{4}{256}$
$\frac{1}{256}$	$\frac{4}{256}$	$\frac{6}{256}$	$\frac{4}{256}$	$\frac{1}{256}$

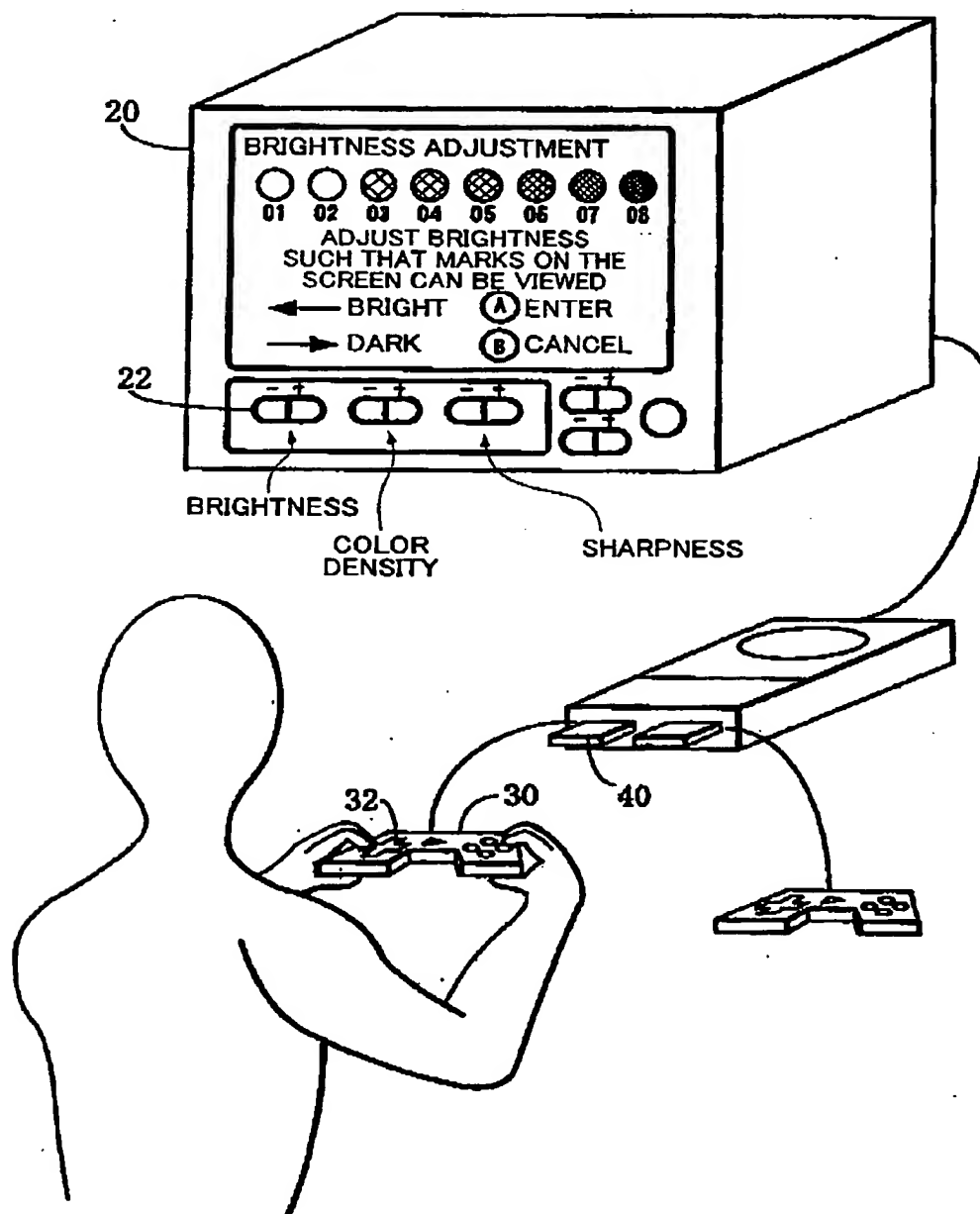


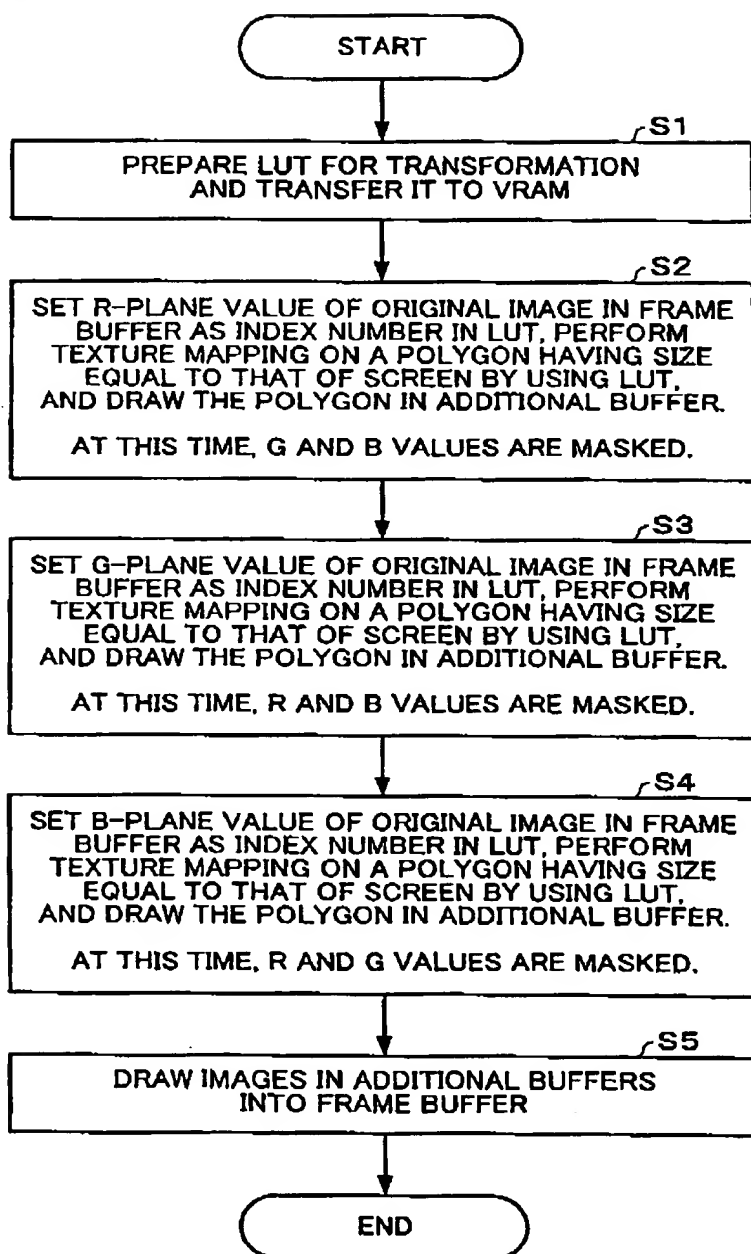
FIG. 33



34/41

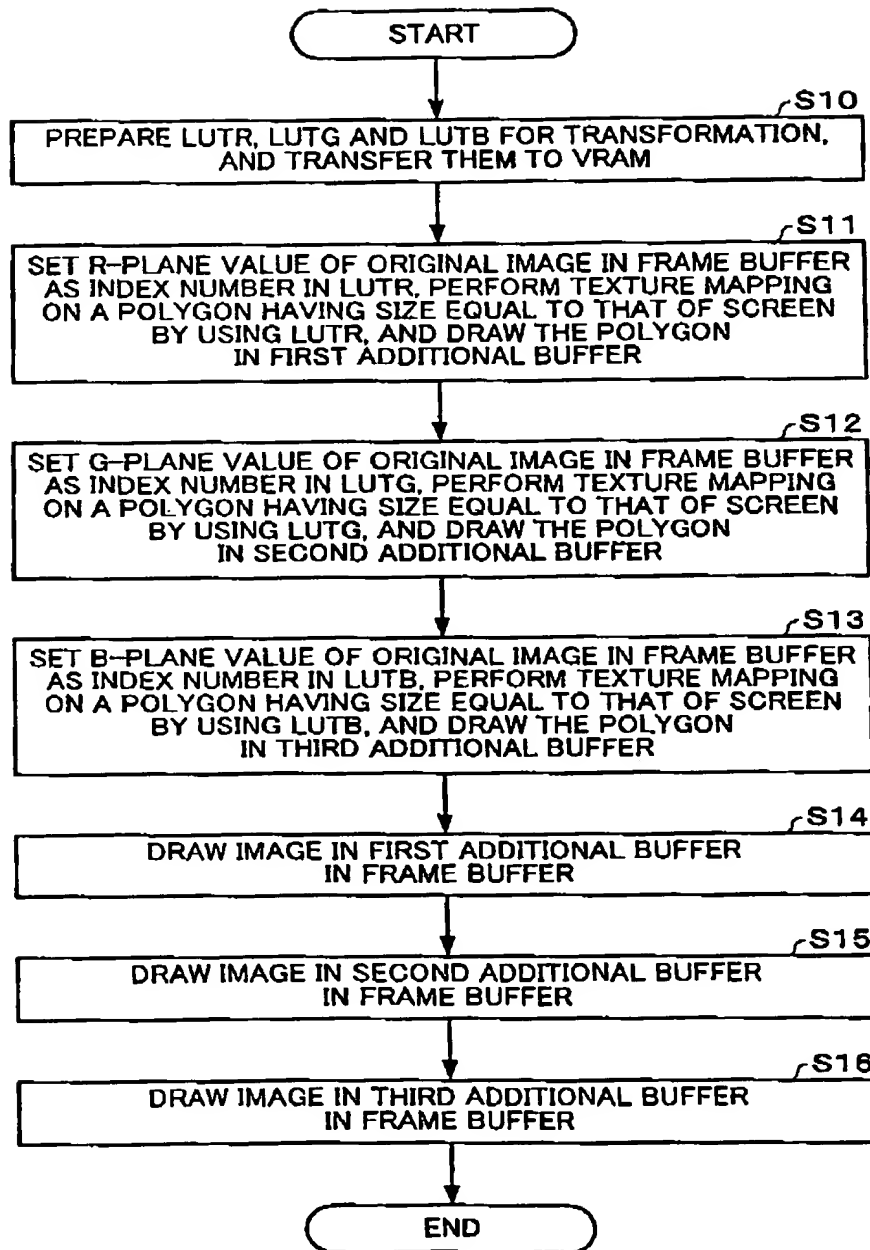
FIG. 34





36/41

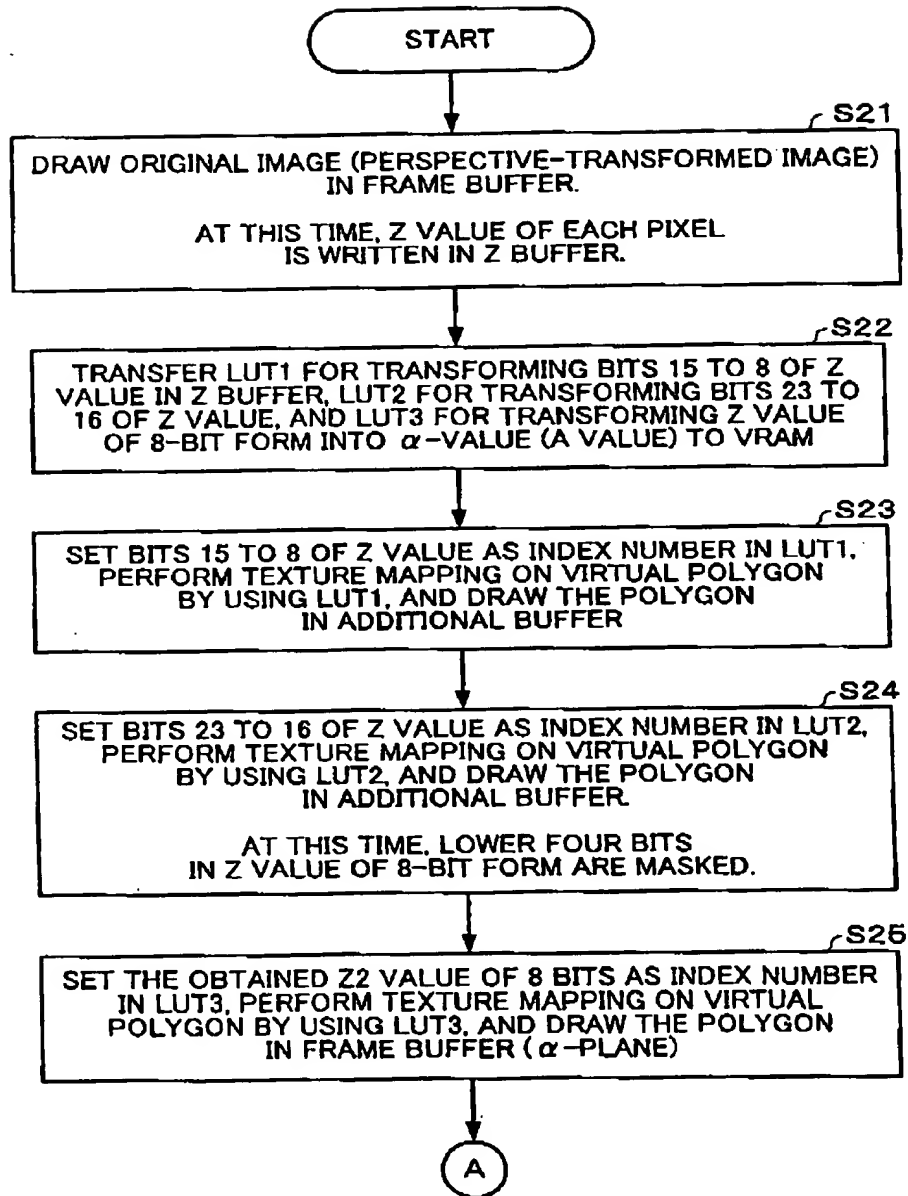
FIG. 36



TOP SECRET

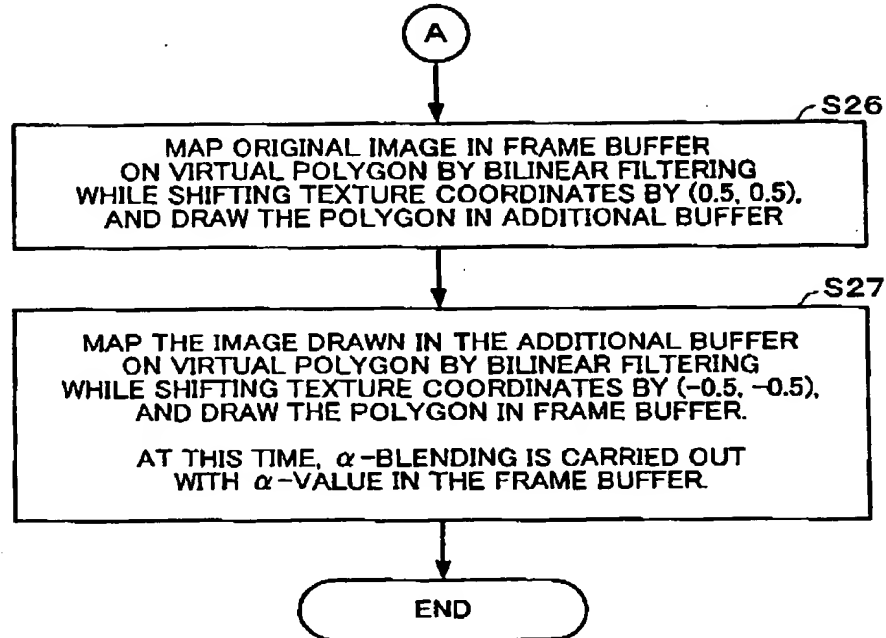
37/41

FIG. 37



38/41

FIG. 38



0005 7 S 032 07910937563

39/41

FIG. 39

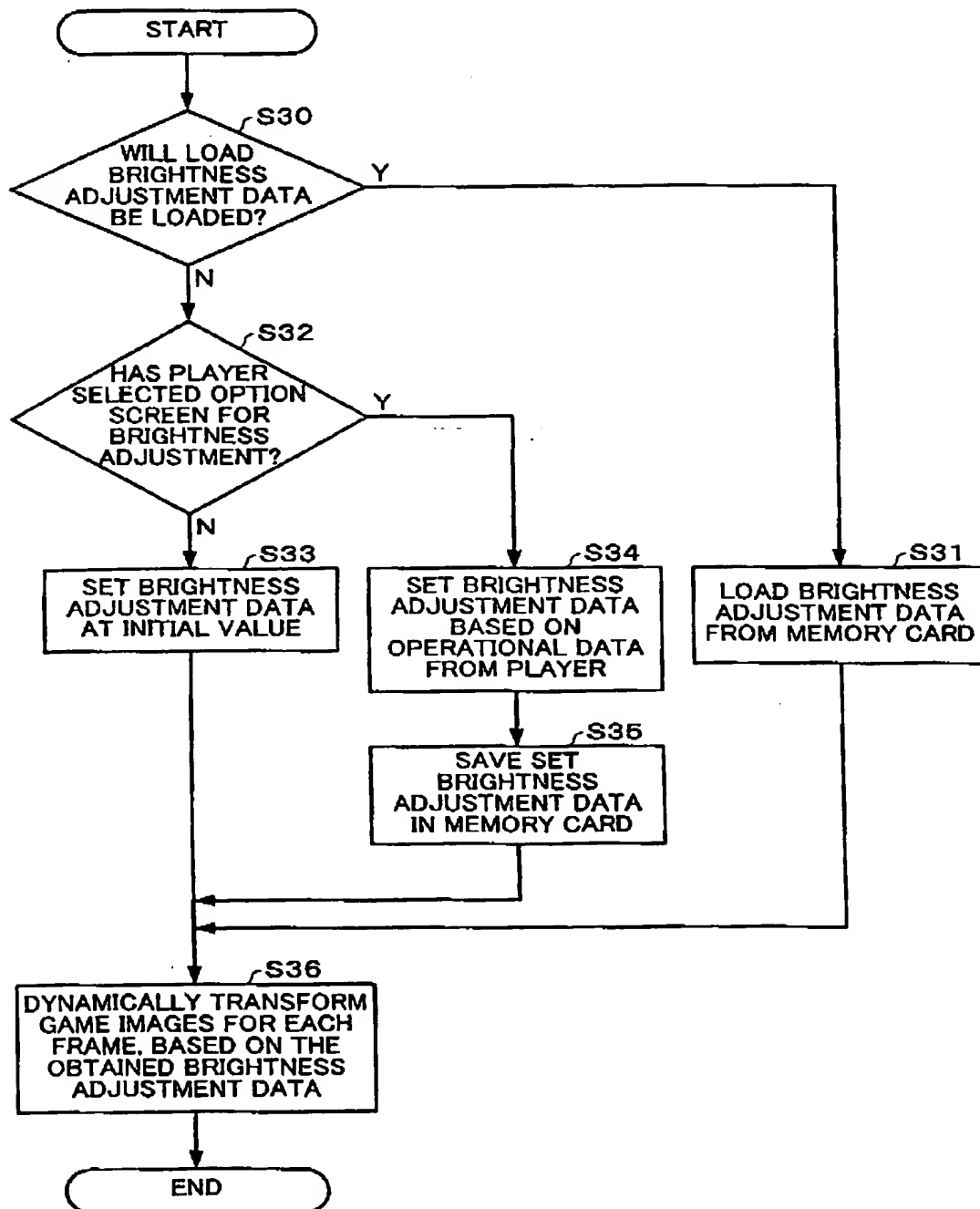
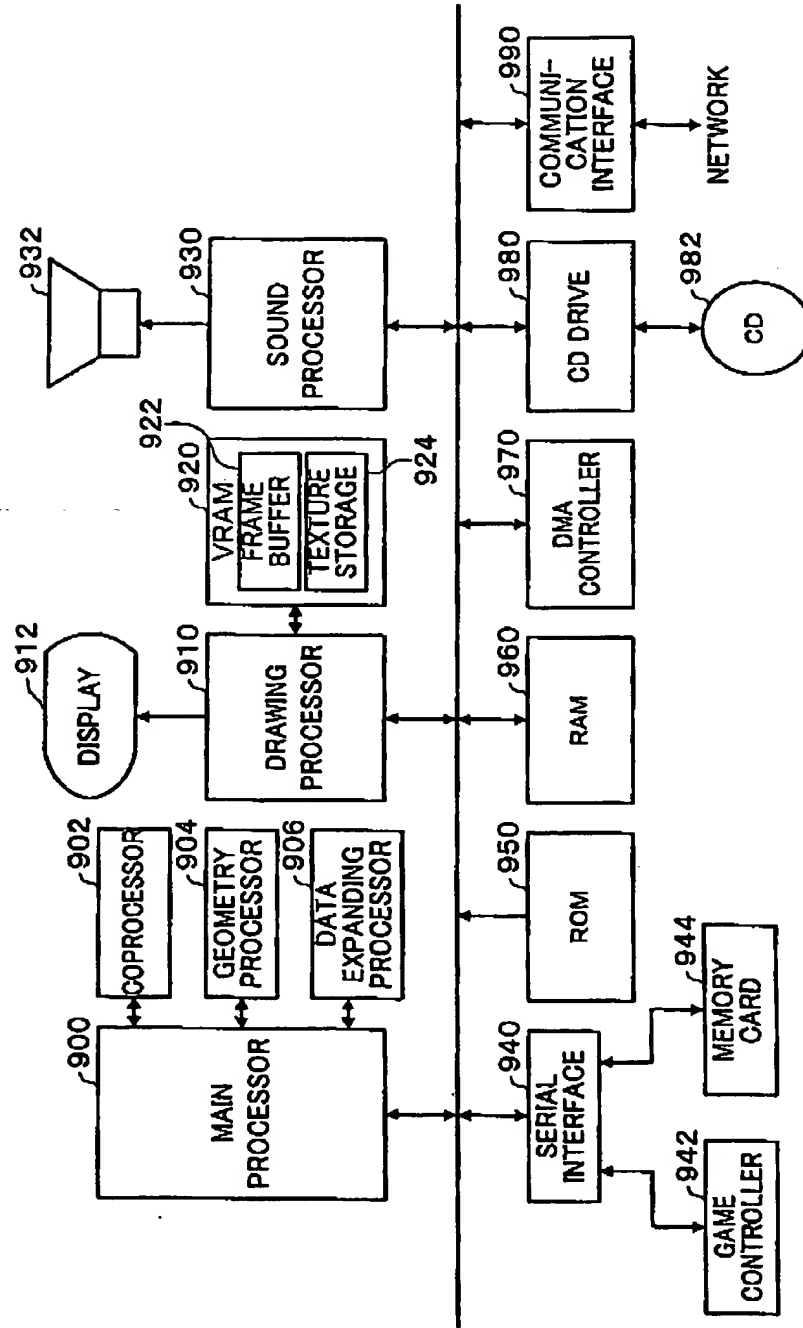


FIG. 40





41/41

FIG. 41A

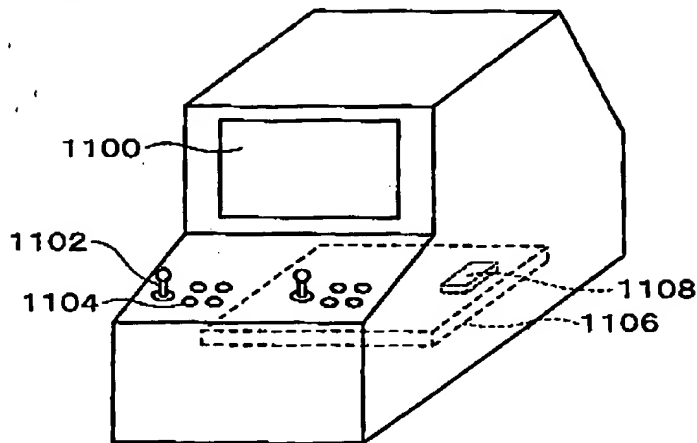


FIG. 41B

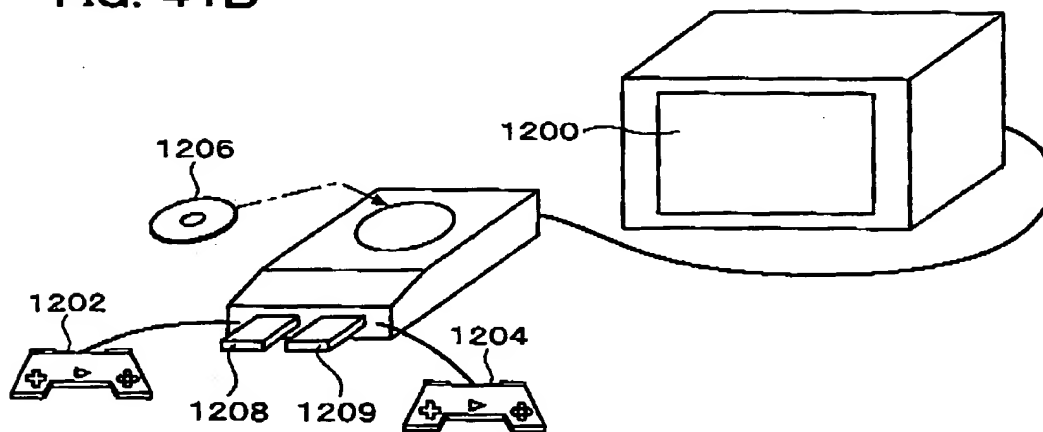


FIG. 41C

